

SEARCH REQUEST FORM

151110

Requestor's
Name:

BERCH

Serial

Number:

10606424

Date:

4/19

Phone:

571-272-0663

Art Unit:

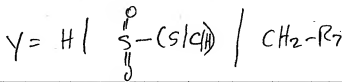
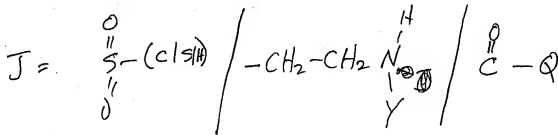
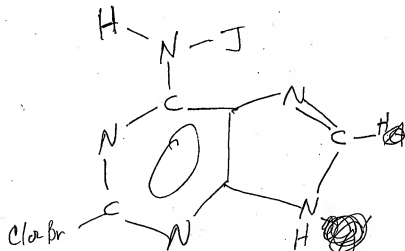
1624

Office Rem 5C01

Mailbox 5C18

Search Topic:

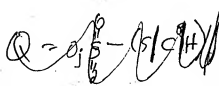
Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).



R₇ = c/N-m-a-ring

Q = (N/O) (C/S/H)

j = 0,1



12:11
12:08

11:38
11:37

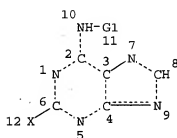
#1 of 4

claim 16

166.06
44.91
2.14
171.66
38477

Page 1

=> d l3 que stat;fil caplus;s l3
L1 STR



CH2-CH2-NH-G3
@16 17 18 19

O=C-G4
20 @21 22

N-G2
@24 25

O-G2
@26 27

CH2G5
@28 29

N @30

VAR G1=14/16/21
VAR G2=C/S/H
VAR G3=H/14/28
VAR G4=24/26/C/S/H
VAR G5=C/30

NODE ATTRIBUTES:

NSPEC IS R AT 30
DEFAULT MLEVEL IS ATOM
DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L3 2 SEA FILE=REGISTRY SSS FUL L1

100.0% PROCESSED 13 ITERATIONS
SEARCH TIME: 00.00.01

2 ANSWERS

COST IN U.S. DOLLARS

SINCE FILE
ENTRY
165.63

TOTAL
SESSION
165.84

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 11:37:54 ON 22 APR 2005

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#1064
claim 16

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FILE COVERS 1907 - 22 Apr 2005 VOL 142 ISS 18

FILE LAST UPDATED: 21 Apr 2005 (20050421/ED)

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substance identification.

L4 1 L3

=> d ibib abs hitstr

14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STM
 ACCESSION NUMBER: 2002:504788 CAPLUS
 DOCUMENT NUMBER: 137978059
 TITLE: Method of preparation of novel purine derivatives and their use as antifungal medicines
 INVENTOR(S): Borden-Pallier, Florence; Haeussli, Jean-Luc
 PATENT ASSIGNEE(S): Aventis Pharma S.A. Fr.
 SOURCE: PCT Int. Appl., EP no. COSEN: PI0022
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION: 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-----------------------|------|--------------------------------------|-----------------|------------|
| WO 2002011843 | A1 | 20020704 | WO 2001-FR4051 | 20011213 |
| FR 2818642 | A1 | 20030628 | FR 2000-17009 | 20001226 |
| CA 2433220 | AA | 20030704 | CA 2001-2433220 | 20011219 |
| EP 1347915 | A1 | 20031001 | EP 2000-04807 | 20011219 |
| JP 2004516326 | T2 | 20040603 | JP 2002-552938 | 20011219 |
| US 2004049733 | A1 | 20040603 | US 2001-004624 | 20030626 |
| PRIORITY APPL. INFO.: | | | FR 2000-17009 | A 20001226 |
| OTHER SOURCE(S): | | CASREACT 137:78805; MARPAT 137:78809 | WO 2001-094053 | W 20011219 |
| GI | | | | |

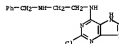


AB The invention concerns novel purine products I [R₁ = (2)NR₁; 2 = CH₂, SO₂, CO, CO₂, CONH, (CH₂)₂-NH₆, a = 0, 1; R₂ = H, Ph, CH₂Ph, pyridyl, alkyl, pivaloyl (optionally substituted); R₇ = (a) substituted Ph, R₂ or R₁, R₂ = H, (a) substituted NR₂], in all the isomeric forms and pharmaceutically acceptable salts, for use as antifungal medicines. Thus, trans-R₂-(4-aminocyclohexyl)-MG-(3,4-dichlorophenyl)-3H-purine-6-amine [I; R₂ = 4-aminocyclohexyl, R₇ = 3,4-dichlorophenyl] was prepared from

14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STM (Continued)
 2,6-dichloropurine was amination with 3,4-dichlorophenylamine in NaOH followed by fusion with trans-1,4-diaminocyclohexane at 70°. 3 (R₂ = 4-aminocyclohexyl, R₇ = 3,4-dichlorophenyl) was shown to be an active inhibitor of HIV-1 (IC₅₀ = 2.9 µM) and Canine allicin (IC₅₀ = 25 µg/ml).
 IT 439603-52-00, 6-(2-aminocyclohexylamino)-2-chloropurine
 ML R01 (Biological study, unclassified); RCT (Reactant); STM (Synthetic preparation); TM (Therapeutic use); B102 (Biological study); FRP (Preparation); RACT (Reactant or reagent); USGS (Uses)
 deriv. as inhibitors of HIV-1
 KM 439603-52-00 CAPLUS
 CN 1,2-Ethanediamine, N-(2-chloro-1H-purin-6-yl)- (SCI) (CA INDEX NAME)



IT 439603-52-00
 R1 RCT (Reactant); SPW (Synthetic preparation); FRP (Preparation); RACT (Reactant or reagent)
 preparation of novel purine derivs. as inhibitors of HIV-1
 RM 439603-52-00 CAPLUS
 CN 1,2-Ethanediamine, N-(2-chloro-1H-purin-6-yl)- N'-(phenylethyl)- (SCI) (CA INDEX NAME)



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Page 4

=> fil caol;s l3
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 5.39 | 171.23 |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

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| ENTRY | SESSION |
| -0.73 | -0.73 |

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

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L5 0 L3

=> log y
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
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|------------|---------|
| ENTRY | SESSION |
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STN INTERNATIONAL LOGOFF AT 11:38:09 ON 22 APR 2005